Table 18. *Calculated compositions of liquid fractionates and crystalline residua derived from the basaltic andesite and andesite compositions at 27 kb*

Composition	Basaltic andesite			Andesite	
Temperature		1,390° C	1,360° C		1,340° C
Nature and estimated % of crystals	Initial liquid	4% ga 2% cpx	9% ga 11% cpx	Initial liquid	5% ga
Liquid fractionate					
SiO_2	56.4	57.2[a]	59.2	62.2	63.4
TiO_2	1.4	1.4	1.4	1.1	1.1
Al_2O_3	16.6	16.4	16.3	17.3	17.0
Fe_2O_3	3.0	3.2	3.7	0.3	0.3
FeO	5.7	5.2	4.2	5.9	5.3
MnO	0.1	0.1	0.1	0.1	0.1
MgO	4.3	3.8	2.9	2.4	2.0
CaO	8.5	8.4	7.6	5.2	5.1
Na_2O	3.0	3.1	3.4	3.3	3.5
K_2O	1.0	1.1	1.3	2.3	2.4
	100.0	99.9	100.1	100.1	100.2
Mol. prop. $\frac{100\,MgO}{MgO + FeO_{Total}}$	47.7	45.6	40.8	41.0	39.0
CIPW norm					
Qz	10.7	12.5	15.3	15.5	16.7
Or	5.9	6.0	7.7	13.6	14.2
Ab	25.4	26.2	28.8	27.9	29.7
An	28.9	27.8	25.4	25.7	23.6
Diop	10.8	11.1	9.8	0.2	1.5
Hyp	11.3	8.9	5.0	14.8	12.1
Ol	—	—	—	—	—
Mt	4.3	4.6	5.4	0.4	0.4
Ilm	2.7	2.7	2.7	2.1	2.1
Crystal residuum					
SiO_2		43.4	45.0		39.1
TiO_2		0.9	1.2		1.1
Al_2O_3		19.1	17.6		22.4
FeO		13.4	11.7		17.7
MnO		0.2	0.2		0.4
MgO		11.9	10.1		10.7
CaO		10.4	12.0		7.4
Na_2O		0.7	1.2		—
K_2O		—	—		—
		100.0	99.0		98.8
Mol. prop. $\frac{100\,MgO}{MgO + FeO}$		61.3	60.6		51.9

[a] Denotes compositions determines from analyses calculated in the manner described on p. 116.

Table 19. *Calculated compositions of liquid fractionates and crystalline residua derived from the high-alumina olivine tholeiite and high-alumina quartz tholeiite compositions at 36 kb*

Compositions	High-alumina olivine tholeiite		High-alumina quartz tholeiite		
Temperature		1,520° C		1,510° C	1,490° C
Nature and estimated % of crystals	Initial liquid	20% cpx 10% ga	Initial liquid	10% cpx 5% ga	15% cpx 10% ga
Liquid fractionate					
SiO_2	50.3	51.9[a]	52.9	53.9[a]	55.1[a]
TiO_2	1.7	2.0	1.5	1.6	1.6
Al_2O_3	17.0	16.8	16.9	17.0	16.7
Fe_2O_3	1.5	2.1	0.3	0.4	0.4
FeO	7.6	7.1	7.9	7.9	7.4
MnO	0.16	0.17	0.2	0.2	0.2
MgO	7.8	6.3	7.0	6.1	5.6
CaO	11.4	10.8	10.0	9.5	9.2
Na_2O	2.8	3.1	2.7	2.9	3.0
K_2O	0.18	0.26	0.6	0.7	0.8
	100.4	100.5	100.0	100.2	100.0
Mol. Prop. $\frac{100\,MgO}{MgO + FeO_{Total}}$	60.7	55.5	60.4	56.8	56.3
CIPW norm					
Qz		1.4	1.3	2.9	4.9
Or	1.1	1.6	3.5	4.2	4.8
Ab	23.7	26.2	22.8	24.6	25.4
An	33.3	31.2	32.2	31.3	29.7
Diop	18.9	18.2	14.2	12.9	13.0
Hyp	11.9	15.2	22.6	20.8	18.6
Ol	6.2	—	—	—	—
Mt	2.2	3.0	0.4	0.6	0.6
Ilm	3.2	3.8	2.8	3.0	3.0
Crystal residuum					
SiO_2		46.6		47.5	46.4
TiO_2		1.0		1.0	1.1
Al_2O_3		17.4		16.4	17.6
FeO		8.7		7.9	9.4
MnO		0.1		0.1	0.2
MgO		11.4		12.3	11.2
CaO		12.9		13.0	12.4
Na_2O		2.0		1.8	1.7
K_2O		—		—	—
		100.1		100.0	100.0
Mol. prop. $\frac{100\,MgO}{MgO + FeO}$		70.0		73.5	68.0

[a] Denotes compositions determined from analyses calculated in the manner described on p. 116.